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	Application No.	Applicant(s) KIM ET AL.		
Notice of Allowability	10/09/ 109			
	10/084,198 Examiner	Art Unit		
	Cultin D. Man Authori	1700		
	Sylvia R MacArthur	1763		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT (of the Office or upon petition by the applicant. See 37 CFR 1.313	OR REMAINS) CLOSED in to or other appropriate communi GHTS. This application is sub	his application. If not inclu- ication will be mailed in due	ded e course. THIS	
1. This communication is responsive to the election of 10/15/2	<u>2003</u> .			
2. The allowed claim(s) is/are <u>1-15</u> .				
3. The drawings filed on 28 February 2002 are accepted by th				
4. Acknowledgment is made of a claim for foreign priority und	der 35 U.S.C. § 119(a)-(d) or	(f).		
a) ⊠ All b) ☐ Some* c) ☐ None of the:				
1. ☑ Certified copies of the priority documents have		N1		
2. Certified copies of the priority documents have3. Copies of the certified copies of the priority doc			ation from the	
International Bureau (PCT Rule 17.2(a)).	uments have been received it	ir mis nadonal stage applic	auon irom the	
* Certified copies not received:				
5. Acknowledgment is made of a claim for domestic priority un reference was included in the first sentence of the specificat	tion or in an Application Data	provisional application) sind Sheet. 37 CFR 1.78.	ce a specific	
(a) The translation of the foreign language provisional ap				
 Acknowledgment is made of a claim for domestic priority un- in the first sentence of the specification or in an Application I 	Data Sheet. 37 CFR 1.78.			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of to below. Failure to timely comply will result in ABANDONMENT of the	this communication to file a rents application. THIS THREE	ply complying with the req E-MONTH PERIOD IS NOT	uirements noted 「EXTENDABLE	
 A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives 	ted. Note the attached EXAM s reason(s) why the oath or de	INER'S AMENDMENT or I eclaration is deficient.	NOTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftsperso 		PTO-948) attached		
1) hereto or 2) to Paper No				
(b) including changes required by the proposed drawing co		ias been approved by the f		
(c) including changes required by the attached Examiner's	Amendment / Comment or in	the Office action of Paper	No	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the e margin according to 37 CFR	drawings in the front (not th 1.121(d).	e back) of	
 DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR TH 	it of BIOLOGICAL MATER IE DEPOSIT OF BIOLOGICA	IAL must be submitted. L MATERIAL.	Note the	
Attachment(s)				
1⊠ Notice of References Cited (PTO-892)	5 ☐ Notice of Inform	ormal Patent Application (PTO-152)		
 Notice of Draftperson's Patent Drawing Review (PTO-948) Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No 		6⊠ Interview Summary (PTO-413), Paper No. <u>1</u> .		
	7⊠ Examiner's Ame	endment/Comment		
4 Examiner's Comment Regarding Requirement for Deposit of Biological Material	8⊠ Examiner's Stat 9⊡ Other .	ement of Reasons for Allo	wance	
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1. Applicant's election without traverse of claims 1-15 mailed 10/15/2003is acknowledged.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Eugene Lee on 12/1/03.

- 3. The application has been amended as follows:
- 6. An apparatus for supplying a chemical solution to a chemical injection part in a semiconductor manufacturing process, comprising:
- a plurality of chemical solution supply sources, each source supplying a different chemical solution;
- a plurality of feed lines into which the chemical solutions are injected from the chemical solution supply sources to the chemical injection part by a pressure of the chemical solution supply sources; and

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a means for measuring/controlling flow rates of the chemical solutions supplied to the chemical solution injection part, the means for measuring/controlling flow rates being mounted in each of the feed lines.

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wherein each of the plurality of feed lines further comprises

a recycle line for preventing coagulation of the chemical solution, the recycle line being connected to an associated chemical solution supply source; and

a branch line branching from the recycle line, the branch line being connected to an associated chemical solution injection part.

- 4. Claim 8, 16, and 17 has been cancelled.
- 5. The dependencies of claims 9 and 10 has been changed:

Claim 9, line 1 delete"8" and insert - - 6 - -

Claim 10, line 1 delete "9" and insert - - 8--

6. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to teach or fairly suggest a recycle line as claimed in claims 1 and 6 of the claimed invention.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sylvia R MacArthur whose telephone number is 703-306-5690. The examiner can normally be reached on M-F during the core hours of 8 a.m. and 2 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Mills can be reached on 703-308-1633. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Sylvia R MacArthur Patent Examiner Art Unit 1763

December 2, 2003

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